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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/453,509	12/03/1999	ANTHONY BEVERINA	8594-001-64	2741	
7:	590 09/15/2005		EXAM	INER	
Supervisor Patent Prosecution			PHAN,	PHAN, THAI Q	
PIPER RUDNICK LLP 1200 Nineteenth Street, N.W.			ART UNIT	PAPER NUMBER	
Washington, DC 20036-2412			2128	-	
•			DATE MAILED: 09/15/200	DATE MAILED: 09/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/453,509	BEVERINA ET AL.
Office Action Summary	Examiner	Art Unit
·	Thai Q. Phan	2128
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MON statute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
	10 August 2005	
, , , , , , , , , , , , , , , , , , , ,	This action is non-final.	
3) Since this application is in condition for all		ers prosecution as to the merits is
closed in accordance with the practice un	·	•
Disposition of Claims		•
4)⊠ Claim(s) <u>1-12,44 and 47</u> is/are pending in	the application.	
4a) Of the above claim(s) is/are wit	· ·	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-12,44 and 47</u> is/are rejected.	•	
7) Claim(s) is/are objected to.	•	
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	miner.	
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.
Applicant may not request that any objection to	o the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the co	orrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the	he Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
40\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		S 119(a)-(d) or (f).
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:	reign priority under 35 U.S.C. §	, (=, (=, (=, (=, (=, (=, (=, (=, (=, (=,
		, (. , (. , . , (, ,
a) ☐ All b) ☐ Some * c) ☐ None of:	ments have been received.	
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a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a Attachment(s)	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)). a list of the certified copies not	pplication No received in this National Stage received.
 a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second comments. 	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)). a list of the certified copies not	pplication No received in this National Stage

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DETAILED ACTION

This Office Action is in response to applicants' amendment for application S/N: 09/453,509, filed on 08/19/2005. Due to applicants' amendment and arguments to the claimed invention, the finality was withdrawn. Claims 1-12, 44, and 47 are pending in the action.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The cited feature "mostly likely" in the claim makes it indefinite for failing to point out the precise meaning of the cited feature.

The cited "weapon/delivery point" is unclear for what it represents for.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section

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351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-12, 44 and 47 are rejected under 35 U.S.C. 102(e) as being anticipated by Bergman et al, US patent no. 6,442,694.

As per claim 1, Bergman anticipates a method and apparatus (system) for modeling and isolating faults in a communication network with feature limitations very identical to the claimed invention. According to Bergman, the system (apparatus) includes

Hardware requirements such as a system memory, an input device, a display device, system processor coupled between them for processing input data,

Means for inputting information about a site of potential attacks (terrorize or local attacks) (cols. 14-24),

Means for constructing a model of the location or site based on input from the user (col. 18, line 18 to col. 19, line 8, for example),

Accepting information from the threat and determining an accessibility of the site to the threat of attack (cols. 18-20),

Determining a probability and detection rate for the local attack or at the delivery point such as network nodes, fatigue components, applications, network flows, capability, etc, based in part on a trigger event (cols. 10-12), and

Calculating a risk based on the accessibility and probability of failure occurrence or fault detection as claimed.

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As per claim 2, Bergman anticipates the Bayesian analysis techniques can be used to calculate consequence and taken actions as claimed (col. 7, lines 1-62, for example).

As per claim 3, Bergman anticipates action models and various consequences in the analysis.

As per claims 4-6, Bergman anticipates the claimed limitations for attack detection and faults propagation like threat vector as claimed.

As per claim 7, Bergman anticipates a method and apparatus (system) for modeling and isolating faults in a communication network with feature limitations very identical to the claimed invention. According to Bergman, the method includes steps and means:

Hardware requirements such as a system memory, an input device, a display device, system processor coupled between them for processing input data,

Means for inputting information about a site of potential attacks (terrorize or local attacks) (cols. 14-24),

Means for constructing a model of the location or site based on input from the user (col. 18, line 18 to col. 19, line 8, for example),

Accepting information from the threat and determining an accessibility of the site to the threat of attack (cols. 18-20),

Determining a probability and detection rate for the local attack or at the delivery point such as network components such as network nodes, fatigue components,

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applications, network flows, capability, etc, based in part on a trigger event (cols. 10-12), and

Calculating a risk based on the accessibility and probability of failure occurrence or fault detection as claimed.

As per claims 8-12, due to the similarity of claims 8-12 to claims 2-6 above, claims 8-12 are also rejected in like manner.

As per claims 44 and 47, Bergman anticipates attack events and fault occurrences with historical data or causality for attack analysis (cols. 6-8).

Response to Arguments

Applicant's arguments with respect to claims 1-12, 44 and 47 have been considered but are most in view of the new ground(s) of rejection.

.Conclusion

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 1. US patent no. 5,020,411, issued to Rowan, Larry, on June 1991
- 2. US patent no. 6,823,068, issued to Samid, Gideon, on Nov. 2004
- 3. US patent application publication no. 2005/0172155 A1, issued to Sheymov, Victor, on Aug. 2005
- 4. US patent application publication no. 2005/0183072 A1, issued to Horning et al, on Aug. 2005

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2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thai Phan whose telephone number is 571-272-3783.

The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jean Homere can be reached on 571-272-3780. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

3. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Sept. 12, 2005

Thai Phan

Patent Examiner